



25-90
0321

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/862,855D
Source: OIPE
Date Processed by STIC: 3/24/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** **SERIAL NUMBER:** 09/862,855D

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
 Numbering The numbering under each 3rd amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
 (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences
 (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.

11 Use of <220>
 "bug" Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855D

DATE: 03/24/2003
TIME: 16:40:35

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF4\03242003\I862855D.raw

3 <110> APPLICANT: Cai, Hong
4 Keller, Richard
5 Werner, James
6 Goodwin, Peter
8 <120> TITLE OF INVENTION: RAPID HAPLOTYPE BY (By WHAT?)
10 <130> FILE REFERENCE: S-94,652
12 <140> CURRENT APPLICATION NUMBER: US 09/862,855D
C--> 13 <141> CURRENT FILING DATE: 2003-03-18
15 <160> NUMBER OF SEQ ID NOS: 21
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 20
21 <212> TYPE: DNA
22 <213> ORGANISM: DNA *globally* Invalid response - see item 10
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <223> OTHER INFORMATION: M13mp18
29 <400> SEQUENCE: 1
30 gctcgaattc gtaatcatcg 20
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 18
35 <212> TYPE: DNA
36 <213> ORGANISM: DNA
38 <220> FEATURE:
39 <221> NAME/KEY: misc_feature
40 <223> OTHER INFORMATION: M13mp18
43 <400> SEQUENCE: 2
44 cagtgcgaag cttcgatg 18
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48 <211> LENGTH: 97
49 <212> TYPE: DNA
50 <213> ORGANISM: DNA
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <223> OTHER INFORMATION: MLL
57 <400> SEQUENCE: 3
58 gaagttccca aaaccactcc tagtgagccc aagaaaaaagc agcctccacc accaaaaacaa 60
60 tatgatacat ctcacaaaac tcactcaaat tctcagc 97
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 27
65 <212> TYPE: DNA
66 <213> ORGANISM: DNA
68 <220> FEATURE:
ppr 1-5
Does Not Comply
Corrected Diskette Needed
on Error Summary Sheet

RAW SEQUENCE LISTING DATE: 03/24/2003
 PATENT APPLICATION: US/09/862,855D TIME: 16:40:35

Input Set : A:\pto.vsk.txt
 Output Set: N:\CRF4\03242003\I862855D.raw

69 <221> NAME/KEY: misc_feature
 70 <223> OTHER INFORMATION: MLL 3968L20
 73 <400> SEQUENCE: 4
 74 aaaaaatttct tgggcttcac tagggag 27
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 78 <211> LENGTH: 29
 79 <212> TYPE: DNA
 80 <213> ORGANISM: DNA
 82 <220> FEATURE:
 83 <221> NAME/KEY: misc_feature
 84 <223> OTHER INFORMATION: AF4 4025L24
 87 <400> SEQUENCE: 5
 88 aaaaaaaattt gagtgagttt ttgaagatg 29
 91 <210> SEQ ID NO: 6
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 93 <212> TYPE: DNA
 94 <213> ORGANISM: DNA
 96 <220> FEATURE:
 97 <221> NAME/KEY: misc_feature
 98 <223> OTHER INFORMATION: MLLCy5P
 101 <400> SEQUENCE: 6
 102 tttcttgggc tc 12
 105 <210> SEQ ID NO: 7
 106 <211> LENGTH: 12
 107 <212> TYPE: DNA
 108 <213> ORGANISM: DNA
 110 <220> FEATURE:
 111 <221> NAME/KEY: misc_feature
 112 <223> OTHER INFORMATION: MLLCy5L
 115 <220> FEATURE:
 116 <221> NAME/KEY: misc_feature
 117 <223> OTHER INFORMATION: AF4FAMP
 120 <400> SEQUENCE: 7
 121 tttagtgatg tt 12
 124 <210> SEQ ID NO: 8
 125 <211> LENGTH: 12
 126 <212> TYPE: DNA
 127 <213> ORGANISM: DNA
 129 <220> FEATURE:
 130 <221> NAME/KEY: misc_feature
 131 <223> OTHER INFORMATION: MLLCy5L
 134 <400> SEQUENCE: 8
 135 tttcttgggc tc 12
 138 <210> SEQ ID NO: 9
 139 <211> LENGTH: 12
 140 <212> TYPE: DNA
 141 <213> ORGANISM: DNA
 143 <220> FEATURE:
 144 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855D

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Input Set : A:\pto.vsk.txt
Output Set: N:\CRF4\03242003\I862855D.raw

145 <223> OTHER INFORMATION: AF4RGXL
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149 tttgagttag tt 12
152 <210> SEQ ID NO: 10
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154 <212> TYPE: DNA
155 <213> ORGANISM: DNA
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <223> OTHER INFORMATION: A*02011/A/TT/GT
162 <400> SEQUENCE: 10
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167 <211> LENGTH: 76
168 <212> TYPE: DNA
169 <213> ORGANISM: DNA
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <223> OTHER INFORMATION: A*02011/A/TT/GT
176 <400> SEQUENCE: 11
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179 cgcagatacc tggaga 76
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183 <211> LENGTH: 32
184 <212> TYPE: DNA
185 <213> ORGANISM: DNA
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <223> OTHER INFORMATION: A*0212/A/CA/GT
192 <400> SEQUENCE: 12
193 tggcagctca gaccaccaag cacaagtggg ag 32
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 76
198 <212> TYPE: DNA
199 <213> ORGANISM: DNA
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <223> OTHER INFORMATION: A*0212/A/CA/GT
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209 cgcagatacc tggaga 76
212 <210> SEQ ID NO: 14
213 <211> LENGTH: 32
214 <212> TYPE: DNA
215 <213> ORGANISM: DNA
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <223> OTHER INFORMATION: A*0236/A/TT/CG
222 <400> SEQUENCE: 14

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855D

DATE: 03/24/2003
TIME: 16:40:35

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Output Set: N:\CRF4\03242003\I862855D.raw

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232 <221> NAME/KEY: misc_feature	
233 <223> OTHER INFORMATION: A*0236/A/TT/CG	
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239 cgcagatacc tggaga	76
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243 <211> LENGTH: 32	
244 <212> TYPE: DNA	
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247 <220> FEATURE:	
248 <221> NAME/KEY: misc_feature	
249 <223> OTHER INFORMATION: A*2402101/G/CA/CG	
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259 <213> ORGANISM: DNA	
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262 <221> NAME/KEY: misc_feature	
263 <223> OTHER INFORMATION: A*2402101/G/CA/CG	
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267 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggacgggctc	60
269 cgcagatacc tggaga	76
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273 <211> LENGTH: 32	
274 <212> TYPE: DNA	
275 <213> ORGANISM: DNA	
277 <220> FEATURE:	
278 <221> NAME/KEY: misc_feature	
279 <223> OTHER INFORMATION: A*24031/G/CA/GT	
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283 tggcagctca gaccacccaa ggcaagtggg ag	32
286 <210> SEQ ID NO: 19	
287 <211> LENGTH: 76	
288 <212> TYPE: DNA	
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292 <221> NAME/KEY: misc_feature	
293 <223> OTHER INFORMATION: A*24031/G/CA/GT	
296 <400> SEQUENCE: 19	
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299 cgcagatacc tggaga	76

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Input Set : A:\pto.vsk.txt
Output Set: N:\CRF4\03242003\I862855D.raw

302 <210> SEQ ID NO: 20
303 <211> LENGTH: 32
304 <212> TYPE: DNA
305 <213> ORGANISM: DNA
307 <220> FEATURE:
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309 <223> OTHER INFORMATION: A*2413/G/TT/GT
312 <400> SEQUENCE: 20
313 tggcagctca gaccacccaa ggcaagtggg ag 32
316 <210> SEQ ID NO: 21
317 <211> LENGTH: 76
318 <212> TYPE: DNA
319 <213> ORGANISM: DNA
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <223> OTHER INFORMATION: A*2413/G/TT/GT
326 <400> SEQUENCE: 21
327 gcggcccatg tggcgagca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc 60
329 cgcagatacc tggaga 76

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/862,855D**

DATE: 03/24/2003

TIME: 16:40:36

Input Set : **A:\pto.vsk.txt**

Output Set: **N:\CRF4\03242003\I862855D.raw**

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date